

Employment Opportunities

There is a continuing demand for skilled men in this field and job opportunities are widely available in areas wherever motive power is in operation — urban, suburban and rural.

The skilled tradesman in this industry who is prepared to take additional training will find that this can lead to many varied and interesting career opportunities in supervisory and management positions.

Enquiries

All enquiries concerning apprenticeship should be addressed to the Director of the Manpower Training Branch in Toronto or to the counsellors at the district offices across the province, listed below:

District Offices

Manpower Training Branch

Barrie 728-1951	Ottawa 731-7100
Belleville 968-8671	Owen Sound 376-5790
Brantford 756-5197	Pembroke 732-9994
Brockville 345-0660	Peterborough 743-4172
Callander 752-1231	St. Catharines 682-4313
Chatham 352-2800	Sarnia 337-2165
Cornwall 933-4260	Sault Ste. Marie 949-3331
Guelph 821-3770	Stratford 273-1520
Hamilton 527-9105	Sudbury 566-3071
Kenora 468-3128	Thunder Bay 345-2101
Kingston 544-5400	Timmins 267-2420
Kitchener 744-5211	Toronto 965-4211
London 438-2911	Windsor 256-8278
North Bay 474-5509	



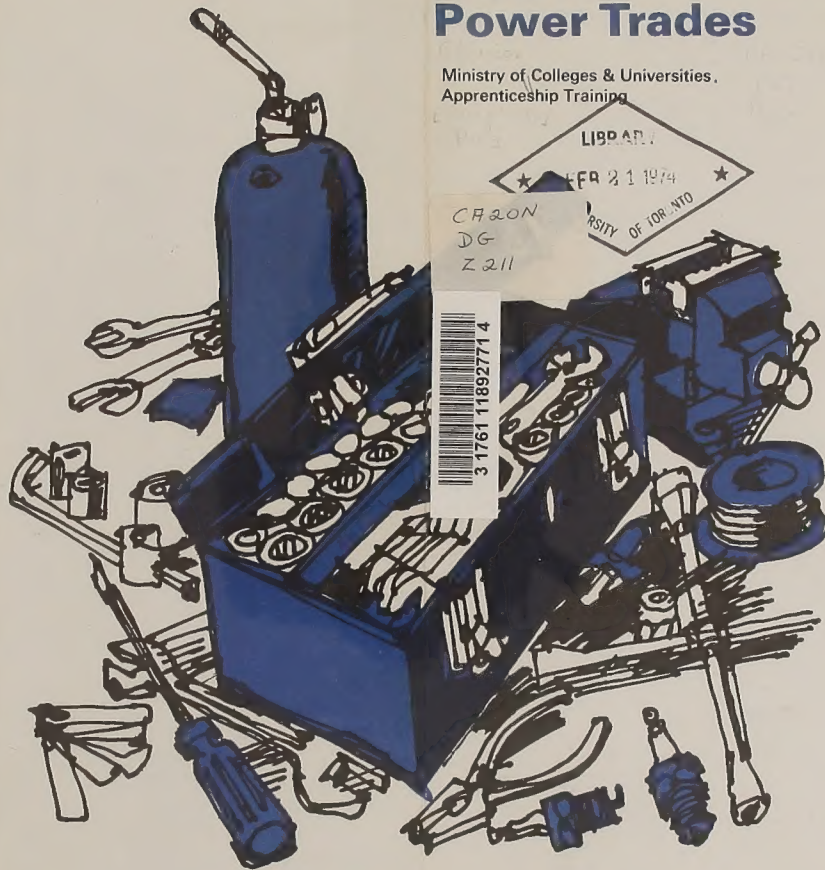
Ministry of Colleges & Universities
Manpower Training Branch
W. F. Davy, Director
Toronto

Jack McNie, Minister
J. Gordon Parr, Deputy Minister

MTB 4014

Motive Power Trades

Ministry of Colleges & Universities.
Apprenticeship Training



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As the number of automobiles, commercial vehicles, heavy and specialized equipment continues to increase, there is a growing demand for skilled repair and maintenance personnel and greater opportunities in this important field.

The need for highly trained specialists who can diagnose faults, adjust and repair motive power equipment to ensure efficient operation has become more critical as this equipment becomes more advanced and complex.

The Ontario Ministry of Colleges & Universities has an established apprenticeship training program for the mechanically minded person who is interested in making a career in the motive power field in any of the following trades:

- Motor Vehicle Mechanic
- Heavy Duty Equipment Mechanic
- Motorcycle Mechanic
- Automotive Machinist
- Auto Body Repairer
- Alignment and Brakes Mechanic
- Fuel and Electrical Systems Mechanic
- Transmission Mechanic
- Truck-Trailer Repairer
- Automotive Painter
- Service Station Attendant
- Farm Equipment Mechanic

The duties and responsibilities of each trade are outlined in a chart elsewhere in this leaflet.

What is Apprenticeship?

Basically speaking, apprenticeship is a systematic program of on-the-job and related classroom instruction designed to produce a fully-qualified journeyman or tradesman. Under the direction of a journeyman, you become fully familiar with the material, tools, principles and skills required in the trade of your choice.

Depending on the trade, the apprenticeship period varies from two to five years. During that time you are contracted to an employer who is obliged to see that you are properly instructed in all aspects of your trade. As an apprentice, your obligation is to perform your job to the best of your ability.

Earning While Learning

You earn while you learn, being paid an increasing percentage of the wages paid a journeyman in the same trade and in the same shop in which you serve your apprenticeship.

The minimum rates under Ontario law are 50, 60, 70, 80 and 90 per cent in each of the five periods of apprenticeship, except for Automotive Painter and Service Station Attendant. These trades

receive 60 and 80 per cent respectively for the first and second periods.

Entry Qualifications

Applicants for apprenticeship must be 16 years or over and, with the exception of Service Station Attendant, Autobody Repairer and Automotive Painter, have a minimum of Grade 10 education or its equivalent. The three trades named require a minimum of Grade 8 or equivalent.

There is no upper age limit for an apprentice, but he must be physically fit for the trade of his choice and should have a mechanical interest in motive power equipment.

Qualifications such as vocational school certificates, related trades training and/or experience, or other training are acceptable equivalents to the Grade 10 and Grade 8 minimums prescribed. Counsellors will assist those wishing to establish equivalent educational qualifications toward entrance to apprenticeship.

Secondary school students should consult their guidance teachers about the opportunities in industrial training.

How Apprenticeship Works

If you are interested in becoming qualified in any of the trades listed, you should contact the Manpower Training Branch at 400 University Ave., Toronto, or the counsellors at the district offices (listed on the back of this leaflet) and arrange for an interview.

You may make application for apprenticeship training during the interview or at a later date. After approval by the Manpower Training Branch, you will receive an interview card indicating that your qualifications are satisfactory and that you are eligible for apprenticeship.

It is then your responsibility to find an employer willing to accept you as an apprentice. The Manpower Training Branch or Canada Manpower Centres are often able to advise which firms have openings in a particular trade. When you have found employment, you will be registered as an apprentice by the Manpower Training Branch.

A contract, specifying conditions of employment such as hours of work and wages, will then be drawn up between you and your employer and signed by both. If you are under 18, a parent or guardian must also sign.

During the training period, apprenticeship counsellors will call on you and your employer to ensure that your training program, progress, rates of pay and working conditions are satisfactory.

Instruction

The major portion of your training will be practical, on-the-job training provided by the employer. You will also receive theoretical and practical instruction at full-time trade school day classes provided at a college of applied arts and technology.

The number and duration of these courses depend on the trade, ranging from one 8-week session to three sessions totalling 26 weeks. The courses are offered by the college of applied arts and technology.

Length of apprenticeship varies according to the trade and is expressed as a given number of 1,800-hour periods, including on-the-job and trade-school training. An 1,800-hour period equates roughly to one year for a 40-hour week.

Credits for academic achievement above minimum entrance requirements may reduce the length or number of periods an apprentice must serve. Details for each trade are listed on the chart.

Training Allowances

During his in-school instruction, the apprentice's tuition fees, living allowance and travel expenses are provided by the Federal Department of Manpower and Immigration or the Ministry of Colleges and Universities.

Certificates of Apprenticeship and Qualification

On completing the necessary number of periods, the apprentice must write a final examination. A minimum mark of 60 per cent in this examination is needed to qualify for a Certificate of Apprenticeship. If a mark of 70 per cent or better is attained, an inter-provincial Seal will be added to this certificate to signify that the holder's qualifications will be accepted by most provinces.

A Certificate of Qualification is issued to holders of a Certificate of Apprenticeship upon application and payment of the prescribed fee.

Benefits of Certification

Certification has four main benefits:

1. It confirms the skills of certified tradesmen and safeguards them from the competition of unqualified workers.
2. It gives the trades and the tradesmen a good reputation for technical efficiency.
3. It affords qualified tradesmen more opportunities for better jobs.
4. It assures the general public and employers of the competence of tradesmen and protects them from dealing with or hiring inexperienced workers.

Trade	Duties	Educational Requirement	Duration of Apprenticeship	Credits for Academic Achievement
Motor Vehicle Mechanic	Disassembles, adjusts, repairs and reassembles all motor vehicle and truck components and tests them for faults and roadworthiness.	Grade 10	5 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics.
Heavy Duty Equipment Mechanic	Disassembles, adjusts, repairs and reassembles all heavy duty equipment components and systems, including suspensions for tracked vehicles, also attachments and auxiliaries used in construction, logging, mining and farming operations and tests them for serviceability.	Grade 10	5 periods each of 1800 hours	200 hours per period for Grade 12. 200 hours per period for Grade 10 plus approved pre-apprenticeship program. 600 hours per period for Grade 12 plus approved pre-apprenticeship program.
Automotive Machinist	Reconditions, rebuilds and tests engines and related components, including power trains and components of brake and suspension systems using boring, turning, milling, grinding and honing machines. Reconditions and regrinds crankshafts.	Grade 10	4 periods each of 1800 hours	300 hours per period for Grade 12 majoring in auto mechanics or machine shop practice. One 1800-hour period for full-time day class pre-apprenticeship program at a college of applied arts and technology.
Auto Body Repairer	Restores damaged automobile and truck bodies and fenders. Checks and corrects frame alignment. Removes and replaces glass.	Grade 8	4 periods each of 1800 hours	400 hours per period for Grade 12 majoring in auto body repair.
Motorcycle Mechanic	Disassembles, adjusts, repairs and reassembles engines, power trains, suspensions and all systems of motorcycles, and tests them for serviceability.	Grade 10	3 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics.
Alignment and Brakes Mechanic	Adjusts, maintains and repairs suspension and brake systems, wheels, rims, tires and tubes, and balances wheels. Inspects for frame alignment and re-aligns as necessary.	Grade 10	3 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics.
Fuel and Electrical Systems Mechanic	Tests, repairs and adjusts components of fuel, ignition and electrical systems or other electrical equipment of vehicles and performs complete engine tune-ups.	Grade 10	3 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics.
Transmission Mechanic	Repairs clutches, standard and automatic transmissions, and drive shafts. Also familiar with engine operation in relation to its correct functioning with these components.	Grade 10	3 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics.
Truck-Trailer Repairer	Repairs trailer suspension systems, frames, brakes and electrical systems. Performs basic trailer body repair and maintenance of refrigeration equipment.	Grade 10	3 periods each of 1800 hours	200 hours per period for Grade 12.
Automotive Painter	Refinishes painted surfaces of automobile and truck bodies and anodized aluminum molding. Mixes paint and matches colours.	Grade 8	2 periods each of 1800 hours	None.
Service Station Attendant	Lubricates vehicles. Maintains cooling systems, batteries, lights, horns, miscellaneous circuits, spark plugs, belts and hydraulic levels. Replaces complete exhaust systems or parts. Repairs tires and tubes and balances wheels.	Grade 8	2 periods each of 1800 hours	200 hours per period for Grade 12. 600 hours per period for Grade 12 majoring in auto mechanics. Full apprenticeship training and certification as a Service Station Attendant is considered a suitable equivalent to Grade 10 for entry into apprenticeship in the trade of Motor Vehicle Mechanic.
Grade 12—Ontario Secondary School Graduation Diploma, or Ontario Grade 12 standing in English, Mathematics and Science.				"Approved pre-apprenticeship program" means related trades training and/or experience considered acceptable substitutes for portions of apprenticeship training.